



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.04/YAD/CSR-7/867/CEMENT/2015-16

Date: 08.07.2015

TEST REPORT ON CEMENT

* CUSTOMER	: Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
* AGENCY	: Mr. Y.A. Dhanashekar, No.28-20 Temple Road, Yelahanka, Bangalore - 64.
* NAME OF THE WORK	: Construction of compound wall and concrete roads in 3 rd B Main in Someshwaranagara in Ward No.04, BBMP, Bangalore.
* REFERENCE	: BBMP/AEE/YNSD/149/2015-16 Dated: 06.07.2015
SAMPLE ID	: Cement
SAMPLE RECEIVED ON	: 06.07.2015
PERIOD OF TESTING	: 06.07.2015 to 08.07.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager



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Job No.: CTCE/BBMP/W.No.04/YAD/CSR-7/867/SAND-Gradation/2015-16

: 08.07.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* **Agency** : Mr. Y.A. Dhanashekar,
No.28-20 Temple Road, Yelahanka, Bangalore - 64.

* **Name of Work** : Construction of compound wall and concrete roads in 3rd B Main in Someshwaranagara in Ward No.04, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/149/2015-16 Dated: 06.07.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 06.07.2015

Date of Testing : 08.07.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.10	90-100	90-100	90-100	95-100
2.36	73.10	60-95	75-100	85-100	95-100
1.18	47.60	30-70	55-90	75-100	90-100
600 Micron	23.10	15-34	35-59	60-79	80-100
300 Micron	10.60	5-20	8-30	12-40	15-50
150 Micron	4.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

ATG W-4
Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.04/YAD/CSR-7/867/AGG/GR/2015-16

: 08.07.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Mr. Y.A. Dhanashekar,
No.28-20 Temple Road, Yelahanka, Bangalore - 64.

* Name of Work : Construction of compound wall and concrete roads in 3rd B Main in Someshwaranagara in Ward No.04, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/149/2015-16 Dated: 06.07.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 06.07.2015

Date of Testing : 08.07.2015

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.35	95-100	85-100
20	45.35	30-70	0-20
10	18.85	10-35	0-5
4.75	3.35	0-5	-

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Remarks : This sample is under Graded specific limits.

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



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Job No.: CTCE/BBMP/W.No.04/YAD/STEEL/2015-16

08.07.2015

TEST REPORT ON REINFORCEMENT STEEL



Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : Mr. Y.A. Dhanashekar,
No.28-20 Temple Road, Yelahanka, Bangalore - 64.

Name of the Work : Construction of compound wall and concrete roads in 3rd B Main in Someshwaranagara in Ward No.04, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/149/2015-16 Dated: 06.07.2015

Date of Test : 08.07.2015

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

Note:

- AB W-4
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Job No.: CTCE/BBMP/W.No.04/YAD/STEEL/2015-16

08.07.2015

TEST REPORT ON REINFORCEMENT STEEL



Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : Mr. Y.A. Dhanashekar,
No.28-20 Temple Road, Yelahanka, Bangalore - 64.

Name of the Work : Construction of compound wall and concrete roads in 3rd B Main in Someshwaranagara in Ward No.04, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/149/2015-16 Dated: 06.07.2015

Date of Test : 08.07.2015

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.45	O.K	O.K

Note:

- AE W-4
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VISHWANATH .C
Quality Manager

Job No.: CTCE/BBMP/W.No.04/YAD/CSR-7/867/CC Solid Block/2015-16

: 13.07.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer

: Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency

: Mr. Y.A. Dhanashekar,
No.28-20 Temple Road, Yelahanka, Bangalore - 64.

* Name of the Work

: Construction of compound wall and concrete roads in 3rd B Main in
Someshwaranagara in Ward No.04, BBMP, Bangalore.

Reference

: BBMP/AEE/YNSD/149/2015-16 Dated: 06.07.2015

Sample Received on

: 06.07.2015

Date of Testing

: 13.07.2015

Size of Blocks

: 400mm x 200mm x 200mm

Cross Sectional Area

: 80000 mm²

Technical Reference

: IS: 2185 (Part 1) - 2005

No. of Blocks Tested

: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.23	260.2	3.25	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	35.12	261.5	3.27	
3	Block 3	36.20	262.3	3.28	
4	Block 4	34.56	258.4	3.23	
5	Block 5	35.29	259.8	3.25	
6	Block 6	36.23	263.5	3.29	
7	Block 7	35.85	264.1	3.30	
8	Block 8	34.25	265.1	3.31	

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager

Job No: CTCE/BBMP/W.No.04/YAD/CSR-7/867/CUBE/2015-16

17.07.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
- * Agency : Mr. Y.A. Dhanashekar,
No.28-20 Temple Road, Yelahanka, Bangalore - 64.
- * Name of the work : Construction of compound wall and concrete roads in 3rd B Main in Someshwaranagara in Ward No.04, BBMP, Bangalore.
- * Reference : BBMP/AEE/YNSD/149/2015-16 Dated: 06.07.2015
- * Sample ID : Cement Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sample Received on : 10.07.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.07.2015	17.07.2015	8.198	335.2	14.90
2	10.07.2015	17.07.2015	8.299	342.3	15.21
3	10.07.2015	17.07.2015	8.311	350.2	15.56

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Job No.: CTCE/BBMP/W.No.04/YAD/CSR-7/867/CUBE/2015-16

28.07.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
- * Agency : Mr. Y.A. Dhanashekar,
No.28-20 Temple Road, Yelahanka, Bangalore - 64.
- * Name of the work : Construction of compound wall and concrete roads in 3rd B Main in Someshwaranagara in Ward No.04, BBMP, Bangalore.
- * Reference : BBMP/AEE/YNSD/149/2015-16 Dated: 06.07.2015
- * Sample ID : Cement Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₁₅

Compressive Strength as on : 7th day

Sample Received on : 21.07.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.07.2015	28.07.2015	8.129	242.2	10.76
2	21.07.2015	28.07.2015	8.263	250.2	11.12
3	21.07.2015	28.07.2015	8.398	255.6	11.36

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Quality Manager

